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Varietal Description of Roblin Spring Wheat

Origin and breeding

Roblin, tested as BW 92, is a hard red spring wheat. It was selected at the Agriculture Canada Research Station, Winnipeg, from the cross BW15/BW38//BW40/RL4353 made in 1976 using the pedigree method. BW15 results from the cross (Manitou x Tobari 66), RL4353 from the cross (CT934/Neepawa//Era/Park) and BW38 and BW40 are derived from (CT615/Neepawa). Selection criteria were rust resistance, early maturity, straw strength and CWRS quality parameters. An F_7 line was bulked to form the variety in 1980. Breeder seed was developed without lining out from the plots used to provide seed for central bread wheat co-operative tests.

Varietal characteristics

Plant characteristics

Growth habit: spring

Coleoptile color: green

Juvenile growth habit: erect

Leaves: medium green; slight waxy bloom; glabrous sheath and blade

Flag leaf: dark green with white auricles; intermediate attitude; medium width, long; glabrous sheath, blade and auricle margins, pronounced waxy bloom on leaf sheath

Tillers: intermediate number

Straw: absent or very weak anthocyanin coloration at maturity; hollow; slight waxy bloom on upper internode; glabrous upper node; fine culm neck which is straight below the spike

Height: medium; shorter than Neepawa

Maturity: medium; earlier than Neepawa

Lodging resistance: very good

Shattering resistance: good

Sprouting tendency: moderate

Drought tolerance: fair

Disease reaction: resistant to stem rust (*Puccinia graminis tritici*) and leaf rust (*P. triticina*), moderately resistant to loose smut (*Ustilago tritici)* and common root rot (*Helminthosporium sativum* and *Fusarium* spp.); susceptible to bunt (*Tilletia caries* and *T. foetida*)

Spike characteristics

Shape: elliptical; medium density; short

Attitude: erect

Color: white at maturity

Spikelets: no supernumerary spikelets; intermediate number per spike; intermediate number of seeds per spikelet

Glumes: white; medium width and length; glabrous; rounded; shoulder of medium width; narrow, acute beak; slight basal folds of lower glume

Kernel characteristics

Type: hard red

Color: medium red

Shape: ovate; medium sized; medium width and length

Germ: medium sized; round to ovate

Crease: midwide to wide; middeep to deep

Brush: long hairs; medium sized area

Cheek: angular to rounded

Quality: good bread quality; high protein

Unacceptable offtypes

Awned plants; half-awned plants and speltoid plants

Performance

Roblin is best adapted to Manitoba where its yield has been equal to Neepawa and slightly more than other check varieties. Its early maturity makes it useful in other areas. Roblin has good lodging resistance and a shorter height and larger kernel than the check varieties. It also has a very good protein level and good resistance to stem rust, leaf rust, common root rot and loose smut but is susceptible to bunt. Note: The yield, agronomic,

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disease and quality tables are available from the Field Crops Branch, Lacombe.

Maintenance of breeder seed

Agriculture Canada Experimental Farm, Indian Head, Saskatchewan

Canadian distributor

SeCan Association

Recommended by

Expert Committees on Grain Breeding and Grain Quality

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